

AMENDMENT TO CLAIMS

1-7. (Cancelled)

8. (Currently amended) A switching power supply unit, comprising:
two or more switching power supplies each including:
two capacitors connected in series;
a transformer having a primary winding whose one end is connected to a
connection point of the two capacitors;
two switching elements connected to the other end of the two capacitors and the
other ends of the primary winding of the transformer; ~~and~~
a rectifier for rectifying ~~and smoothing~~ an output of a secondary winding of the
transformer[[,]] ; and
a choke coil for smoothing an output of the rectifier, and
a common control circuit for controlling the plurality of switching elements,
wherein the two or more switching power supplies are connected to an input power
supply so that the capacitors are connected in series, output voltages generated by the two or
more switching power supplies are outputted to a common output terminal, ~~and~~ the control
circuit switches the plurality of switching elements in the plurality of switching power supply
units at regular intervals and regular time ratios, and
the windings of the transformer are made of stacked plate-shaped conductors.

9. (Cancelled)

10. (Previously presented) The switching power supply unit according to claim 8, wherein the windings of the transformer are formed of copper foil patterns stacked on a multilayer printed board.

11. (Currently amended) The switching power supply unit according to claim [[9]] 10, wherein the copper foil patterns are formed one turn per layer of the multilayer printed board, and the copper foil patterns in the layers are interconnected by a connection unit.

12. (Previously presented) The switching power supply unit according to claim 8, wherein each of the secondary windings of the transformer is a coil of one turn or a plurality of coils each made of one turn connected in parallel.

13. (Currently amended) The switching power supply unit according to claim [[12]] 11, wherein the connection unit is formed outside the copper foil patterns.

14. (Previously presented) An electronic device for supplying electric power to a semiconductor device by using the switching power supply unit according to any one of claims 8 to 13.